

Pantex Plant - CostWorks Sustainment Models

March 2008



Presented by:
Steve Patterson,
CAIS Administrator/CAS Section Manager



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Owner	Steve Patterson, B&W Pantex
Release Update	2007 DOE Cost Data

Version 11.1



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Open Titles	Assemblies, Building Construction, Concrete & Masonry, Electrical, Heavy Construction, Interior, Mechanical, Plumbing, Site Work & Landscape, Square Foot
MasterFormat	MasterFormat™ 2004
Location	Amarillo, TX (791)
Wage Rate	Union
Project Name	[No Active Project]
Project Notes	

Click here after ensuring
your location and wage
rate is correct

Getting Started!

CostWorks Tips

Never assume that the water, sewer and drainage lines will be installed at the early stages of the project. Consider the site access needs before dividing the site in half with open trenches. Install pipe and equipment



CostWorks 2007 DOE Version 3.0 - 12-086

File Edit Select View Navigate Tools Help

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Owner Steve Patterson

Release Update 2007 DOE Cost

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Open Titles Assemblies, Bu...
Heavy Construct...
Landscape, Squ...

MasterFormat MasterFormat™

Location Amarillo, TX (79...

Wage Rate Union

Project Name 12-086

Project Notes This area is for any project notes...

CostWorks Tips Use Bookmarks to mark frequently accessed areas of the data file.

For Custom databases available for Facilities Management and

Settings | Estimator | Unit Costs | Assembly Costs | Project Costs | Square Foot Models | Residential Models

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DOE Site Report (FIMS - OSF)

Connect to RSMeans on the Internet

start FullSh... Novell... Cost... 2 Mi... CAIS ... Pante... 2008 ... 11:32 AM

Select Model

Select the model you want to work with. You can also create, copy, and erase models and enter any model notes. The current model name and notes will appear on the main screen.

Available Models

- [No Active Project]
- 11-017
- 11-018
- 11-022
- 11-051
- 11-051A
- 12-017B
- 12-019
- 12-021
- 12-041
- 12-058
- 12-063
- 12-063A
- 12-086**
- 12-094
- 12-117
- 12-130
- FS-010

Model Detail

Project Name: 12-086 Check Spelling Print Notes

Notes: This area is for any project notes...

Buttons: New, Copy, Backup, Erase, Folder..., CostLists..., Models Location...

File Path: S:\520\CAS Program\Steve's Folder\CostWorks Info\Bldg Sustainment Cost Data\12-086.prj

Cancel Open

Step 1 - Select "New"

Step 2 - Type in Project Name

Step 3 - Select "Open"

Step 4 - Select Square Ft Models

CostWorks 2007 DOE Version 3.0 - 12-086

File Edit Select View Navigate Tools Help

S.Y.

Industrial Buildings

2007 Costs for Amarillo, TX (791)

DOE N36 SNM Component Staging Facility

Union

U.S. Department of Energy

SNM Component Staging Facility

Costs in \$ per Square Foot of gross floor area calculated for a 1 story building with 20' story height.

Cast in Place Concrete

Steel Frame

DOE Information

Site Number 21001

Area Number 013

Property ID 12-086

#1

Exterior Wall Type	S.F. Area	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
& Structural System	L.F. Perimeter	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cast in Place Concrete	Steel Frame	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Common Additives

Common Additives			\$ Total
Description	Qty	Unit	\$ Cost
Dumbwaiter, 2 stop, electric	0.00	Ea.	26,600.00
Solar, draindown, hot water system, 1" tubing, 120 gal	0.00	Ea.	9,600.00
Evaporative cooling unit, 10 T capacity, approx. 3000 S.F.	0.00	Ea.	18,400.00
20 T capacity, approx. 6000 S.F.	0.00	Ea.	29,000.00
30 T capacity, approx. 9000 S.F.	0.00	Ea.	39,700.00
EMCS, DDC, for 10,000 SF (35 T A/C)	0.00	Ea.	31,700.00
Fire pump, diesel, 6" pump, 140 HP, 1500 GPM, 100 psi	0.00	Ea.	75,000.00
10" pump, 300 HP, 3500 GPM, 100 psi	0.00	Ea.	130,000.00
Electric, 6" pump, 139 HP, 1500 GPM, 1770 RPM	0.00	Ea.	38,300.00
10" pump, 300 HP, 3500 GPM, 1770 RPM	0.00	Ea.	71,500.00
Secondary power wiring, retrofit, 3 watts per S.F.	0.00	Ea.	0.87

Note: Totals include Overhead Fees of 0% and Architectural Fees

Parameters

The costs for this building model are based on the following parameter values. Basement components and costs are not applicable for the model selected.

#3

Area (S. F.) 49707

Perimeter (L.F.) 1041

Number of Stories (Ea.) 2

Story Height (L.F.) 20

Partition Density (S.F. Floor/L.F. Partition) 100

Partition Height (L.F.) 18

Door Density (S.F. Floor/Door) 485

Additional Markups

Report Label Percentage

0.000

0.000

0.000

#4

Get Default Values

Cancel

OK

Settings

Estimator

Unit Costs

Project Costs

Square Foot Models

Residential Models

#2

Costs are derived from a building differences and local market conditions. Scope of work and materials may vary significantly.

Additives

Clear Additives

Cast in Place Concrete / Steel Frame

S.F. Qty 49707

To List

Matl/S.F. 126.30

Inst/S.F. 82.24

Total/S.F. 208.54

Material 6,277,994.10

Installation 4,087,903.68

Total 10,365,897.78

start

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	Description	Quantity	Unit	Ext. Material Incl O&P	Ext. Installation Incl O&P	Ext. Sub Incl O&P	Ext. Total Incl O&P	Zip Co de Pre fix	Type	Release	Notes
98	Roof vent. system, power, centrifugal, aluminum, galvanized curb, back draft damper, 1500 CFM	13.00	Ea.	\$19,662.50	\$35,591.65		\$55,254.15	791	Union	2007 DOE	#3 #6810716, #6810718, #6810717, #6810719, #6810720, #6804590, #6804552, #6804556, #6804553, #6804554, #6804709, #6804593, #6804589, HP & CFM VARIES
99	Heat exchanger, 64 gpm, for DOE HE Subassembly Facility	1.00					\$5,723.55	791	Union	2007 DOE	#6804582, RM 139
100	Hydronic heating for DOE HE Subassembly Facility	8.00					\$4,075.74	791	Union	2007 DOE	STAIRS AND RM 177
101		1.00									
102	Misc. package units for DOE SNM Component Staging Facility	1.04					\$148,683.83	791	Union	2007 DOE	
103	Misc. other HVAC systems for DOE SNM Component Staging Facility	1.04					\$975,361.26	791	Union	2007 DOE	
104	Wet pipe sprinkler systems, steel, extra hazard, 1 floor, 50,000 SF	40,411.79					\$148,597.79	791	Union	2007 DOE	
105	Wet pipe sprinkler systems, steel, extra hazard, each additional floor, 10,000 SF	9,295.21					\$22,908.97	791	Union	2007 DOE	
106	Fire extinguisher, CO2, portable, with swivel horn, 5 lb.	21.75					\$3,051.54	791	Union	2007 DOE	
107	Electrical power Transformer, 30 kVA (DOE 8988)	9.00	kVA	\$896.69	\$480.83		\$1,377.52	791	Union	2007 DOE	RM 137, DT
108	Electrical power Transformer, 30 kVA (DOE 8988)	15.00	kVA	\$1,494.49	\$801.38		\$2,295.87	791	Union	2007 DOE	RECPT FEED, RM 137, DT
109	Electrical power Transformer, 75 kVA (DOE 8988)	150.00	kVA	\$11,192.22	\$4,263.60		\$15,455.82	791	Union	2007 DOE	#6810710, MECH RM, RM 14 DT
110	Electrical power Transformer, 75 kVA (DOE 8988)	150.00	kVA	\$11,192.22	\$4,263.60		\$15,455.82	791	Union	2007 DOE	#6804868, RM 137

CostList Import

Select CostList: Square Foot Models Select one or more lines to import

	Sub	Qty	Assembly Number	
1		875.28737	A10101108300	Continuous footing for DOE
2		38.32619	A10102108900	Spread footings for DOE S
3		1,924.59637	A10301207900	Mat foundation for DOE S
4		5,442.91650	B10102178900	Floor construction for DOE
5		20,404.72350	B10201128900	Roof construction for DOE
6		2,002.28460	B20101019600	Exterior wall for DOE SNM
7		4,459.30429	B20101463300	Metal siding, steel, corrug
8		341.82820	B20101468900	Penthouse siding for DOE
9		26,351.84696	B20101528900	E.I.F.S. Exterior Wall for D
10		1,459,30429	B20101543000	Metal siding support, 18" H

Select All Deselect All

Use Markups From Means Estimate

Sub All Sub None

Double click Sub column to turn on/off Subco

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CAIS Data Main Menu - [CAS Management Database_rev3 : Database (Access 2000 file format)]

File Edit View Insert Tools Window Help Adobe PDF

Type a question for help

Open Design New

Objects

- Tables
- Queries**
- Forms
- Reports
- Pages
- Macros
- Modules

Groups

- Favorites
- Test

Create query in Design view

Create query by using wizard

(A) Detailed data for Sustainment Models

(A) Query for building Cost Work models

(A) Query for Matt Foster Painting Jobs

(A) Query for Sheila Moore reports

(A) Query used for Monthly PassPort DM reviews

(A) Quick Query for mini searches (with WBS)

(A) Quick Query for Steve when reviewing data entry

(A) Quick Query Short Version for mini searches (SP 11-17-06)

(Q) BWXT CAIS "TYPE" Report

(Q) BWXT CAS Report for Facility Managers

(Q) BWXT CAS Report for Facility Managers- COPY

(Q) BWXT CAS Report for OSF POC's

(Q) BWXT CAS Report for OSF POC's Total Maker

(Q) BWXT Deficiency History Report

(Q) BWXT OPT YEAR Current Backlog

(Q) BWXT OPT YEAR DM <=2007 ad-hoc SP

(Q) BWXT WBS Deferred Summary Report

(Q) BWXT WBS Deferred Summary Totals 11-28-06

(Q) BWXT WBS DM Summary Totals by Zone 11-29-06

(Q) BWXT WBS Facility Summary for Facility Managers

(Q) BWXT WBS OSF Summary for OSF POC's

(Q) BWXT WBS OSF Summary for OSF POC's Total Maker

(Q) POC REPORT COMMENTS

(Q) Weekly Input Stats

BWXT Failed-Poor Report

chart_BWXT FY03 Baseline

DATA TESTING/CORRECTION Query - for reseaching or testing only

Find duplicates for POCPrimaryNames

FY03 Centralized deferred 2-1-05 vs 1-29-05

FY03 Centralized deferred spreadsheet 2-2-05 Without Matching FY

FY03 Deferred (Completed)

FY03 Deferred (Outstanding)

FY03 DM - Zone 12 ME

FY03 DM - Zone 12 ME Phase 3

FY03 DM by Zone

FY03 DM ME

FY03 DM MS

FY04 baseline deferred vs Centralized 2-7-05

qry- For Global changes

qry- For Global changes - Zero Compl Yr

qry_PROJ DM CAIS Completed Proj Actual Costs (SP 10-5-06)

qry_PROJ DM data for Contractor and-or UPC (Backup qry)

qry_PROJ DM data for Contractor and-or UPC (SP 2-9-06)

qry_PROJ DM data for Laura (SP 12-6-07)

qry_PROJ DM data for Tonya

qry_PROJ DM PassPort Completed Proj Actual Costs (SP 6-21-06)

qry_PROJ DM PassPort In-House Project Summary (SP 7-17-06)

qry_PROJ DM PassPort Project summary (SP 6-23-06)

qry_PROJ DM-Completed DM Monthly Review (SP 8-17-06)

qry_05 export to FIMS-Teri

qry_10-10-05 Rpt Rachelle Stewart-AHU

qry_12-36 dm

qry_9-30-05 DM - Mission

qry_9-30-05 DM - Mission

qry_Asset Level Detail

qry_BWXT All Inclusive (M

qry_BWXT Bldg by Type I

qry_BWXT CAIS Data Inp

qry_BWXT CAIS new IU's

qry_BWXT CAIS New IU's

qry_BWXT CAIS New IU's

qry_BWXT CAS ANNUAL

qry_BWXT CAS ANNUAL

qry_BWXT CAS Deficiency

qry_BWXT CAS Deficiency

qry_BWXT Completed Co

qry_BWXT Deferred Main

qry_BWXT Deferred Main

qry_BWXT Disconnect Co

qry_BWXT Disconnect Co

qry_BWXT DM Completed

qry_BWXT Facilities - Las

qry_BWXT Failed or Poor

qry_BWXT Manufacturing

qry_BWXT Optimum Year

qry_BWXT OSF ME/MS

qry_BWXT Passport-CAIS

qry_BWXT Project Dev R

qry_BWXT Project Dev R

Ready

NUM

start FullSh... Novell... Cost... 2 Mi... 2 Mi... Pante... 2008 ... 12:02 PM


















Query results

A289	A	B	C	D	E	F	G	H	I	
	Adjus. Made to CW	Disipline	RSM_LINE_N UM	SumOfIU _QTY	COMP_U M_ABP	TYPE_NAME	Loc Value 1	Other Type Desc	Eq #	Comment
198	Y	MECHANICAL	233414107600	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 3328 CFM, 1-1/2 H.P.	FAN, EXHAUST EF-5	AEROVENT #21/4ARR4CLHP, 1 HP	6810720	S/N 04-036130
199	Y	MECHANICAL	233414107600	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 3328 CFM, 1-1/2 H.P.	RM 202, FAN, EXHAUST	MAKE # ?, SIZE ?, ?CFM, 1/2 HP	6804590	LOCATED IN S
200	Y	MECHANICAL	233414107600	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 3328 CFM, 1-1/2 H.P.	RM 207, UPSTAIRS, FAN	EXHAUST, TWIN CITY #FF4, 3/4HP,1020CFM	6804552	SOUTHWEST BY DOOR 86-F CONTAMINATI
201	Y	MECHANICAL	233414107540	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 485 CFM, 1/6 H.P.	ABV 2ND FLR, FAN, EXH	LOREN COOK, THRUWALL, 86-RW-3, 1/2HP	6804556	1100 CFM, NC
202	Y	MECHANICAL	233414107540	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 485 CFM, 1/6 H.P.	EXHAUST, TASK	TWIN CITY #ARR-10, 3/4 HP, 1020 CFM	6804553	NO INFORMAT
203	Y	MECHANICAL	233414107540	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 485 CFM, 1/6 H.P.	FAN, EXH 86-R2W-2	LOREN COOK, THRUWALL, 1/2HP, 1100CFM	6804554	NO INFORMAT
204	Y	MECHANICAL	233414107540	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 485 CFM, 1/6 H.P.	RM 202, FAN, EXHAUST	ARR-10, 3/4 HP	6804709	ABANDONED
205	Y	MECHANICAL	233414107540	1	EACH	Fans, utility set, steel construction, pedestal, direct drive, 1/4" S.P., 485 CFM, 1/6 H.P.	RM 208, SW CORNER	BLOWER, EXHAUST, LOREN COOK # ?	6804593	E & W FAN



CostWorks 2007 DOE Version 3.0 - 12-086

File Edit Select View Reports Tools Help



	Source	Line Number	Description	Quantity	Unit	Ext. Material Incl O&P	Ext. Installation Incl O&P	Ext. Sub Incl O&P	Ext. Total Incl O&P	Zip Co de Pre fix	Type
153	Assembly	D50902200300							\$32,501.47	791	Union
154	Assembly	D50902200300							\$84,503.83	791	Union
155	Model	D50902300250							\$607.76	791	Union
156	Model	D50904100010							\$14,118.31	791	Union
157	Model	E10303100125							\$245.91	791	Union
158	Model	E10303100150							\$10,213.73	791	Union
159	Model	E10303100190							\$1,181.60	791	Union
160	Model	E10905500130							\$11,306.10	791	Union
161	Model	E10905500150							\$10,410.37	791	Union
162	Model	E10905500190							\$563.43	791	Union
163	Model	F10302101010							\$56,910.26	791	Union
164	Model	F10302101020							\$10,781.91	791	Union
165			Component Staging Facility								
						\$7,043,146.63	\$3,779,916.06		\$10,823,062.63		

Export Estimate File: Enter the Estimate export file name.

Save in: 12-086.prj

12-086 CAIS query data

12-086 Estimate

My Recent Documents

Desktop

My Documents

My Computer

My Network Places

File name: 12-086 Estimate.xls

Save as type: Lifecycle Cost File (*.xls)

Save

Cancel

Settings Estimator Unit Costs Assembly Costs Project Costs Square Foot Models Residential Models

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Your sites factor

[Cost Details](#)
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[Chart](#)

Cost Details Sum. Table Chart

Questions!

